

*LCN Fund Full Submission*

## *Supplementary Answer Form*

Tick if this answer is Confidential: ☐

Tick if this answer has been provided verbally: ☐

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|--|---|-----------------|-------------------|
| Project code:                          | UKPN2002  | Question Number | 17                |
| Question date                          | 15 September 2011   | Answer date     | 21 September 2011 |
| Submission section question relates to | Section 9   |                 |                   |
| Topic                                  | SDRC  |                 |                   |
| Question                               | Please submit revised Successful Delivery Reward Criteria using the form available in the Shared LCN Fund Folder. You should also refer to the email sent by Mark Askew on 14 September (a copy of this is also available in the Shared LCN Fund folder).   |                 |                   |
| Notes on question                      |   |                 |                   |
| Answer                                 | <p><b>Revised SDRC:</b></p> <div style="border: 1px solid black; padding: 5px;"> <p><u>Criterion 9.1</u></p> <p>Successful completion of the first phase of stakeholder engagement activities, resulting in clear identification of key technical and commercial challenges to the FPP project. These outputs will be shared with all the relevant stakeholders, including all GB DNOs, and will form a key input to the Strategic Investment Model and Smart Commercial Arrangements FPP project work streams. This will be completed by the end of Q3 2012.</p> <p><u>Evidence 9.1</u></p> <p>Stakeholder Engagement Report I, outlining the findings from the first phase of stakeholder engagement activities.</p> </div> |                 |                   |

#### Criterion 9.2

Successful development of smart commercial arrangements, which will provide a number of options that can be tested and implemented in new types of connection agreements with generation developers. The development of smart commercial arrangements will be completed by the end of Q4 2012.

#### Evidence 9.2

The evidence for meeting criterion 9.2 will be provided by:

- Report on Principles of Access, which will determine the Principles of Access for Smart commercial arrangements
- Connection agreements templates for actively managed generator connections, to be established in conjunction with key stakeholders.

#### Criterion 9.3

Successful deployment of an IP communications platform across the FPP trial area to support open standards communication protocols. This will be completed by the end of Q1 2013.

#### Evidence 9.3

The evidence for this criterion will be provided by:

- Sign-off of successful installation and commissioning of Cable & Wireless Worldwide Multi-Service Platform (MSP) network and Silver Spring Networks Radio Frequency (RF) Mesh network in the FPP trial area.
- Results of IEC 61850 communication trials using IEC 61850 simulators at various locations in the FPP trial area.

#### Criterion 9.4

Successful demonstration of flexible plug and play capabilities of the overall FPP technical solution following completion of the FPP installation phase. This will be completed by the end of Q3 2013.

#### Evidence 9.4

The evidence for this criterion will be provided by:

- IEC 61850 certification for all relevant RTUs, IEDs and other IEC 61850 field devices.
- Sign off documentation of installation and commissioning of IEDs and other field devices necessary to support the trials.
- Sign off documentation of installation and commissioning of production of Smart Applications.
- Pre-production interoperability test results for FPP's Smart Devices and Smart Applications

#### Criterion 9.5

Successful completion of the FPP Strategic Investment Model including validation and testing of the model utilising data captured within the FPP trials. This will be completed by the end of Q4 2014.

#### Evidence 9.5

The evidence for this criterion will be provided by:

- Sign off documentation of completion of the Strategic Investment Model development.
- Validation and test results.
- Provision of the Strategic Network Investment model in a format accessible to third parties.

#### Criterion 9.6

Successful implementation of Active Power Flow Management and Active Voltage Management within the FPP trial area. This will be completed by the end of Q4 2014.

#### Evidence 9.6

The evidence for this criterion will be provided by:

- Pre-production functional test results for Active Power Flow Management and Active Voltage Management applications
- Sign-off of completion of installation and commissioning of production Active Power Flow Management and Active Voltage Management applications
- Suitable agreements with generators in place (if required)
- Trial results for the Active Power Flow Management and Active Voltage Management trials

#### Criterion 9.7

Successful facilitation of faster and cheaper connection of renewable generation to the distribution network, compared to timescales and costs of connection utilising traditional approaches. This will be completed by Q4 2014.

#### Evidence 9.7

The evidence for this criterion will be through the provision of one or more connection offer(s) to renewable generators using the FPP methods. The connection offers utilising commercial and technical tools developed under FPP will be compared with connection offers developed for the same connection requests utilising traditional approaches. In order to successfully meet this criterion, the FPP connection offer(s) will have to:

- Be cheaper than the offer(s) based on traditional reinforcement
- Offer faster project connection timescales than the offer(s) based on traditional reinforcement

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|  | <div> <p><u>Criterion 9.8</u></p> <p>Successful deployment of a Quadrature-booster within the FPP trial area. This will be completed by Q2 2012.</p> <p><u>Evidence 9.8</u></p> <p>Sign-off of completion of installation and commissioning of a Quadrature-booster.</p> </div> |
| Attachments                            |   |
| Verbal Clarifications<br>(Consultants) |   |